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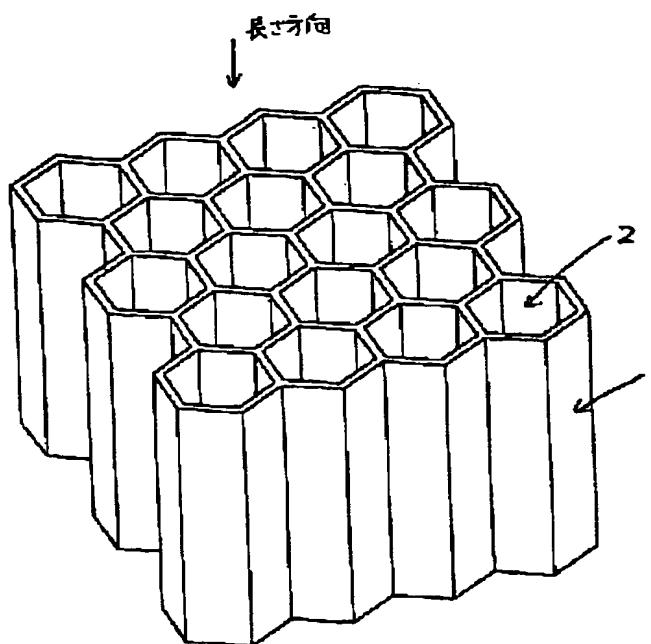
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APPLICANT : TOYOBO CO LTD;

INVENTOR : NONOMURA CHISATO;

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TITLE : RESINOUS SHOCK ABSORBER AND
SHOCK ABSORBING METHOD USING
THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To provide a shock absorber having a superior shock absorbing ability, which has a small and lightweight structure, possesses a large energy absorbing capacity as compared with reaction force, and is capable of using both on the ground and in the sea without maintenance.

SOLUTION: This is a shock absorber having a structure where hollow parts 2 surrounded by a partition wall 1 formed of material having a bending modulus of 5000 kgf/cm² or more are continuously and stratifiedly formed in the same direction, and having a honey-comb shape in cross section, wherein the hollow part partition wall 1 of the shock absorber is buckle-deformed, wherein a reaction-compressibility curve at the time of longitudinally compressing of the shock absorber satisfies the condition that yield strength is not less than 100 tf/m² and a compression energy absorbing capacity per unit volume is not less than 50 tf.m/m³, and wherein a reaction is made to be uniform with keeping an initial length when being added displacement in a longitudinal direction of the shock absorber until partially deformed, and being added displacement again after once removal.

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